SEQUENCE LISTING

- (1) GENERAL INFORMATION:
 - (i) APPLICANT: Inze, Dirk
 Segers, Gerda
 De Veylder, Lieven
 Mironov, Vladimir
 - (ii) TITLE OF INVENTION: METHOD AND MEANS FOR MODULATING PLANT CELL CYCLE PROTEINS AND THEIR USE IN PLANT CELL GROWTH AND CONTROL
 - (iii) NUMBER OF SEQUENCES: 4
 - (iv) CORRESPONDENCE ADDRESS
 - (A) ADDRESSEE: Nixon Peabody LLP
 - (B) STREET: 990 Stewart Avenue
 - (C) CITY: Garden City
 - (D) STATE: New York, New York
 - (E) ZIP: 11530
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
 - (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
 - (C) CLASSIFICATION:
 - (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: EP PCT/EP98/01522
 - (B) FILING DATE: 13-MAR-1998
 - (A) APPLICATION NUMBER: EP 97.200.765.2
 - (B) FILING DATE: 14-MAR-1997
- (2) INFORMATION FOR SEQ ID NO: 1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 454 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (iii) HYPOTHETICAL: NO
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Arabidopsis thaliana
 - (ix) FEATURE:
 - (A) NAME/KEY: CDS
 - (B) LOCATION: 15..276

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:												
CCTCTGAGAG AGAA ATG GGT CAG ATC CAA TAC TCC GAG AAA TAC TTC GAT Met Gly Gln Ile Gln Tyr Ser Glu Lys Tyr Phe Asp 1 5 10	50											
GAC ACT TTC GAA TAC AGG CAC GTC GTT CTT CCT CCT GAA GTC GCT AAA Asp Thr Phe Glu Tyr Arg His Val Val Leu Pro Pro Glu Val Ala Lys 15 20 25	98											
CTT CTT CCA AAG AAT CGT CTT CTC TCC GAA AAC GAA TGG CGA GCG ATA Leu Leu Pro Lys Asn Arg Leu Leu Ser Glu Asn Glu Trp Arg Ala Ile 30 35 40	146											
GGA GTG CAG CAA AGC CGC GGA TGG GTA CAT TAC GCG GTT CAT CGA CCT Gly Val Gln Gln Ser Arg Gly Trp Val His Tyr Ala Val His Arg Pro 45 55 60	194											
GAG CCG CAC ATA ATG CTA TTC AGG AGG CCT CTT AAC TAT CAG CAG CAG Glu Pro His Ile Met Leu Phe Arg Arg Pro Leu Asn Tyr Gln Gln 65 70 75	242											
CAG GAG AAT CAA GCT CAG AAC ATG CTT GTT AAG T GAATCATTAT Gln Glu Asn Gln Ala Gln Asn Met Leu Val Lys 80 85	286											
CATCACCTGA GTAAGAATGT TATATGCAAC AATTCTATGA GTATTGGTTT ATGTTTCTTG												
TAAACATGGT TTGAATCTTT GTGGTTATGG ATGAATATGT GAGAGTTGGT TTGTTGAACA												
ACTTCTATGT AATGTTAGTC TTGGTTCTAA TGTCATCTTC TGCTTCTC	454											
(2) INFORMATION FOR SEQ ID NO: 2: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 696 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic) (iii) HYPOTHETICAL: NO (vi) ORIGINAL SOURCE: (A) ORGANISM: Arabidopsis thaliana (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:												
ATGGGTCAGA TCCAATACTC CGAGAAATAC TTCGATGACA CTTTCGAATA CAGGTAAAGC	60											
TCTTCAATCT CGCTTCTTCT TCCTCCAATT TTCACTCTCA CTTCTCTAAT CGTAATCGAT	120											
CGATACAGGC ACGTCGTTCT TCCTCCTGAA GTCGCTAAAC TTCTTCCAAA GAATCGTCTT	180											
CTCTCCGAAG TAAGTTTTTT TCCGCATTGT TCTCTGATTT CTGATTCTAA ATCCTTCGAT	240											
TAGATCATCG AAGACTATGA AAATTTGTTG CTCTTAAGAA ATTAAGTTTG GGAAAAATCG	300											

AAAAAGAG.	AT C	GTTT	AGGTT	' TA	GGAT'	ГТGА	ATC	TTTG	CTC	TGAA'	rcca	AA T'	TGCA	ACTG:	Γ
TACGATTT'	TG A	ATCT'	TTGCT	TT	GGGA:	гттт	GTA	AGGT	ГТА	GTGA:	raaa:	GA G	ATTT:	raga(C
ATTTGTGT	TG T	GCAA'	rctct	TC	AATG:	TTGT	ATT	GATT	GGT	GGTG	ATGG	ra a	TAAA	GTTT	3
GAATTTCG	AA G	AACG	AATGG	G CG	AGCGA	ATAG	GAG'	rgca(GCA	AAGC	CGCG	GA T	GGGT	ACAT	Γ
ACGCGGTT	CA TO	CGAC	CTGAG	CC	GCACA	AATA	TGC	TATT	CAG	GAGG	CCTC	rt A	ACTA:	rcag(
AGCAGCAG	GA G	AAT C	AAGCT	CA(GAACA	ATGC	TTG	rtaa(GTG .	AATCA	ATTA	rc a	rcac(CTGA	3
TAAGAATGTT ATATGCAACA GATCTATGAG TATTGG															
(2) INFORMATION FOR SEQ ID NO: 3:															
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 87 amino acids(B) TYPE: amino acid(C) STRANDEDNESS:(D) TOPOLOGY: linear															
(ii)	(ii) MOLECULE TYPE: peptide														
(vi)	<pre>(vi) ORIGINAL SOURCE: (A) ORGANISM: Arabidopsis thaliana</pre>														
(ix)	<pre>(ix) FEATURE: (A) NAME/KEY: Peptide (B) LOCATION:1</pre>														
(xi)	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:														
Met 1	Gly	Gln	Ile	Gln 5	Tyr	Ser	Glu	Lys	Tyr 10	Phe	Asp	Asp	Thr	Phe 15	Glu
Tyr	Arg	His	Val 20	Val	Leu	Pro	Pro	Glu 25	Val	Ala	Lys	Leu	Leu 30	Pro	Lys
Asn	Arg	Leu 35	Leu	Ser	Glu	Asn	Glu 40	Trp	Arg	Ala	Ile	Gly 45	Val	Gln	Gln
Ser	Arg 50	Gly	Trp	Val	His	Tyr 55	Ala	Val	His	Arg	Pro 60	Glu	Pro	His	Ile
Met 65	Leu	Phe	Arg	Arg	Pro 70	Leu	Asn	Tyr	Gln	Gln 75	Gln	Gln	Glu	Asn	Gln 80
Ala	Gln	Asn	Met	Leu 85	Val	Lys									
(2) INFORMATION FOR SEQ ID NO: 4:															

(ii) MOLECULE TYPE: peptide

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 72 amino acids(B) TYPE: amino acid(C) STRANDEDNESS:(D) TOPOLOGY: linear

- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Arabidopsis thaliana
- (ix) FEATURE:
 - (A) NAME/KEY: Peptide
 - (B) LOCATION:1
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
- Met Gly Gln Ile Gln Tyr Ser Glu Lys Tyr Phe Asp Asp Thr Phe Glu $1 \ 5 \ 10 \ 15$
- Tyr Arg His Val Val Leu Pro Pro Glu Val Ala Lys Leu Leu Pro Lys 20 25 30
- Asn Arg Leu Leu Ser Glu Asn Glu Trp Arg Ala Ile Gly Val Gln Gln 35 40 45
- Ser Arg Gly Trp Val His Tyr Ala Val His Arg Pro Glu Pro His Ile $50 \hspace{1.5cm} 55 \hspace{1.5cm} 60$

Met Leu Phe Arg Arg Pro Leu Asn 65 70